

Patent Claims

1. A process for folding a sheet into a folded sheet with at least 16 pages, wherein the following steps are carried out directly one after the other:
 - a) said sheet is folded around a center line thereof running transversely to a feeding transporting direction of said sheet, whereby a first folded sheet with four pages is formed,
 - b) said first folded sheet is folded around a folding line running longitudinally in relation to said feeding transporting direction, whereby a second folded sheet with eight pages is formed,
 - c) said second folded sheet is folded around a folding line running longitudinally in relation to said feeding transporting direction, whereby a third folded sheet with sixteen pages is formed.
2. The process as claimed in claim 1, wherein
 - d) said third folded sheet is deflected in a continued-transporting direction, which runs essentially at right angles to said feeding transporting direction, and
 - e) said third folded sheet is folded around a center line thereof running longitudinally in relation to said continued-transporting direction, whereby a fourth folded sheet with 32 pages is formed.
3. The process as claimed in claim 1, wherein said third folded sheet is pressed in said feeding transporting direction before it is deflected in said continued-transporting direction.
4. The process as claimed in claim 1, wherein perforations are formed in said sheet along said folding lines extending in said feeding transporting direction.
5. The process as claimed in claims 2, wherein a buckle folder is used for said folding operation according to a), a plow folder is used in each case for said folding operations according to b) and c), a deflecting table is used for said deflecting operation according to d), and a knife folder is used for said folding operation according to e).
6. The process as claimed in claim 5, wherein a structural element is used which combines said two plow folders.

7. The process as claimed in claim 5, wherein a small press is arranged between said plow folder and said deflecting table, said third folded sheet passing through said press in said feeding transporting direction.

8. The process as claimed in claim 1, wherein said longitudinal side of said sheet runs transversely to said feeding transporting direction.